TXICC FirstNet Update

Mike Huynh: FirstNet Territory Manager

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FIRSTNET.
Built with AT&T

FIRSTNET®
Built with AT&T

BY THE NUMBERS

The **only** dedicated communications platform in the country that brings first responders:

Always-on, 24x7 priority and preemption across voice and data communications

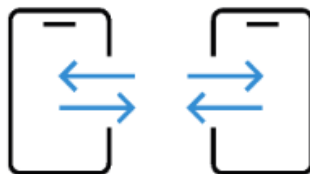A physically separate network core **fully dedicated** to public safety

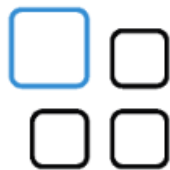Government oversight and accountability from the **FirstNet Authority**

4M
FirstNet connections

23K+
Public safety agencies and organizations subscribed

200+
apps in the FirstNet App Catalog

525+
FirstNet Ready® devices

AMERICA'S PUBLIC SAFETY NETWORK

2.81M+
Square miles of coverage

50K+
Square miles more than commercial networks

150+
Dedicated assets in the FirstNet fleet

30+
ROG the Dog therapy animals

95%+
Band 14 coverage completion; well ahead of schedule

1K+
Solutions deployed for public safety this year
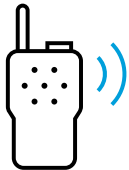
Band 14 New Sites List

Data through June 2022

#	County	Planned	Preferred Location Identified	Site Acquisition Complete	Under Construction	Construction Complete	On-Air
1	ARANSAS (Houston Evac. Routes 1)	X	X	X	X	X	X
2	CAMERON 1 (Mexico Border 1)	X	X	X	X	X	X
3	CAMERON 2 (Mexico Border 2)	X	X	X	X	X	X
4	CAMERON 3 (Mexico Border 3)	X	X	X	X	X	X
5	CROCKETT	X	X	X	X	X	X
6	CULBERSON	X	X	X	X	X	X
7	EL PASO (Mexico Border 4)	X	X	X	X	X	X
8	FORT BEND	X	X	X	X	X	X
9	HAMILTON (Hamilton)	X	X	X	X	X	X
10	HARRIS (Legacy Prep. Academy)	X	X	X	X	X	X
11	HIDALGO (Mexico Border 5)	X	X	X	X	X	X
12	HUDSPETH (Mexico Border 6)	X	X	X	X	X	X
13	MARTIN (Near Midland (WTL05348))	X	X	X	X	X	X
14	MATAGORDA (Houston Evac. Routes 2)	X	X	X	X	X	X
15	MAVERICK 1 (Mexico Border 7)	X	X	X	X	X	X
16	MAVERICK 2 (Mexico Border 8)	X	X	X	X	X	X

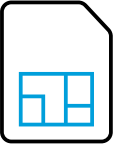| #	County	Planned	Preferred Location Identified	Site Acquisition Complete	Under Construction	Construction Complete	On-Air
17	MONTGOMERY	X	X	X	X	X	X
18	RANDALL 1 (Palo Duro Canyon)	X	X	X	X	X	X
19	RANDALL 2 (Canoncita Ranch)	X	X	X	X	X	X
20	REEVES	X	X	X	X	X	X
21	SHELBY	X	X	X	X	X	X
22	STARR 1 (Mexico Border 9)	X	X	X	X	X	X
23	STARR 2 (Mexico Border 10)	X	X	X	X	X	X
24	VAL VERDE (Mexico Border 11)	X	X	X	X	X	X
25	WILLIAMSON (DPS Florence)	X	X	X	X	X	X

Program Outlook

The following are upcoming Program and Nationwide Planned Technology Enhancements.

	Go Red System • Enhances in building coverage for improved communications
	FirstNet and Family • Simplify FirstNet and consumer wireless account; one account, one login, one bill
	Siyata SD-7 • First LTE entry into the LMR market with radio design
	CRD2.0 • Enhancing download speeds, coverage, and capability to receive HPUE device connections
	FirstNet Global SIM (IoT) • Over-the-air profile change from AT&T to FirstNet SIM (vice versa)

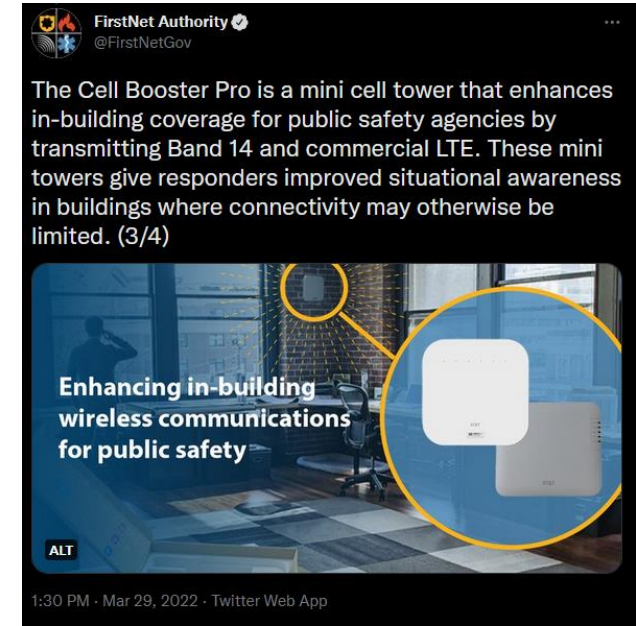# FIRSTNET AUTHORITY REINVESTMENT FOR IN-BUILDING

FirstNet Authority authorized reinvestment focused on improving in-building coverage for FirstNet Primary Agencies.

By enacting Resolution 113, the FirstNet Authority issued a task order to AT&T for solving in-building coverage for agency facilities.

FirstNet Authority will continue to look for opportunities to reinvest in FirstNet customer needs.

The FirstNet Authority Board passed Resolution 113 **"Network Investments"** at the quarterly board meeting. The resolution directs the FirstNet Authority to issue a task order to network contractor, AT&T, to make an indoor-coverage enhancing service, a radio access network (RAN) extension, available to primary FirstNet subscribing agencies.

FirstNet Authority Board A...
rrmediagroup.com

FirstNet Authority ✔
@FirstNetGov

The Cell Booster Pro is a mini cell tower that enhances in-building coverage for public safety agencies by transmitting Band 14 and commercial LTE. These mini towers give responders improved situational awareness in buildings where connectivity may otherwise be limited. (3/4)

Enhancing in-building wireless communications for public safety

ALT

1:30 PM · Mar 29, 2022 · Twitter Web App
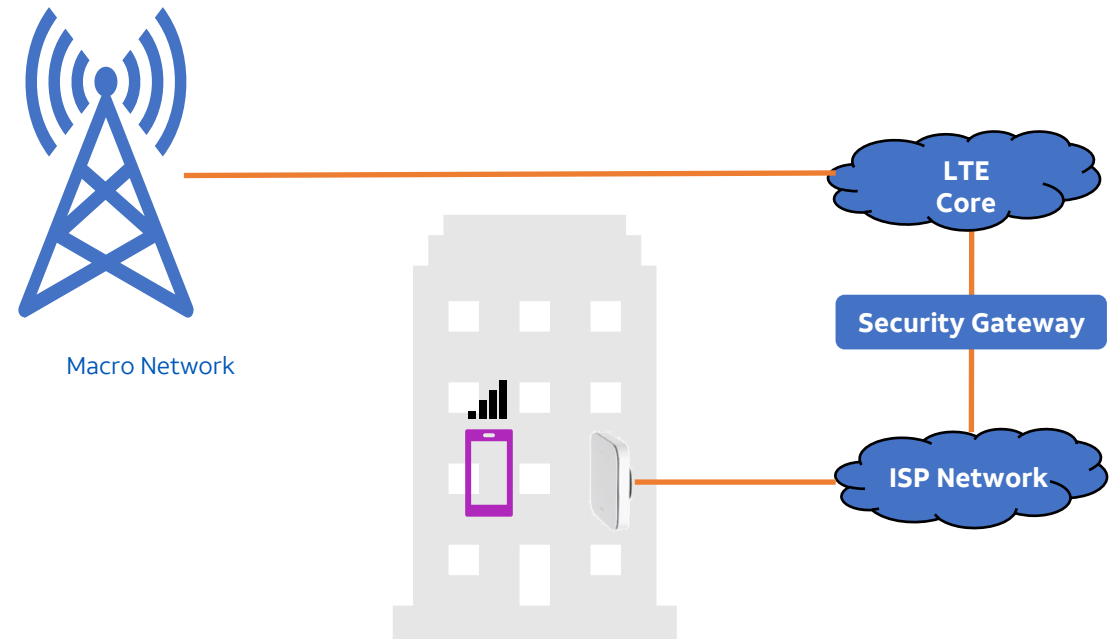
Cell Booster Pro is an enterprise-grade mini cell tower, designed to provide better indoor coverage for Business and FirstNet customers utilizing customer provided internet. Cell Booster Pro creates a 4G LTE cell signal, allowing for more reliable indoor cellular coverage and more consistent data speeds.

- Improves FirstNet Built with AT&T coverage in poor signal areas not covered by traditional macro network towers

- Supports coverage areas between 15K - 45K sq ft.

- Alternative to WiFi Calling

- Self-managed via mobile app / web portal with optional Professional Installation

- FirstNet configuration enabled with Band 14

- Consumer / Small Business model available with AT&T Cell Booster^SM

We've got you covered!

Macro Network

LTE Core

Security Gateway

ISP Network

FirstNet Disaster Kits

- Designed for storage and ready for use at an incident or emergency.

- Organizations can keep a cache of devices ready for emergencies or pre-planned events.

- Customized cases and custom foam to hold:

  - Multiple phones + MiFi routers

  - Multi-USB rapid-charger hubs to display current flow

  - Chargers and Additional space

SatCOLT

- Drivable vehicle
- Triple-redundant power & HVAC
- Quick set up/ tear down
- LTE Band-14 & Commercial band
- Remote management

Compact Rapid

- Compact Rapid Deployable (CRD)
- ½ Mile Range
- High Speed Satellite Internet
- On demand Cell Tower when and where you need it

FirstNet One™

- 55-foot aerostat
- Tethered to satellite backhaul trailer
- Lifts 175lb+ payload
- LTE radios and antennas up to 1000 feet
- Large area coverage for 2+ weeks

Other solutions

- Provide Wi-Fi and/or LTE cellular coverage
- Extend wireless networking
- Multiple tools configured onsite to solve unique needs of the location

TxICC: FirstNet Federal Update

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November 9, 2022

Delivering on the Promise

- Public safety always gets priority

- Highly secure network to meet public safety's data requirements

- Controlled access by public safety agencies for their users

- Coverage where public safety operates

- Enhanced user experience

FirstNet® Authority

Continued Innovation for Public Safety

Z-Axis for FirstNet
Measuring device altitude via barometric pressure

FirstNet MegaRange™
High power user equipment exclusively on Band 14

5G for FirstNet
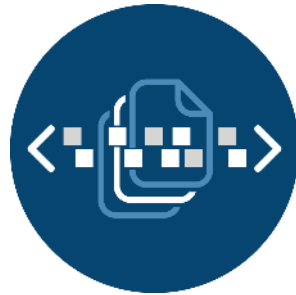Access to AT&T's 5G spectrum for public safety

CRD™ for FirstNet
Low-cost portable cell site with Band 14 connectivity

FirstNet Messaging App
Unified, dedicated messaging gateway and platform

Data Priority
Rich, detailed multi-media messages at the highest priority on the network

FirstNet PTT to LMR
Communications between LMR and the FirstNet PTT solution

Tower-to-Core Encryption
S1U encryption creates secure tunnel from tower and backhaul to FirstNet Core

Boulder Experience

Public Safety Immersive Test Center

DEMONSTRATIONS

Location-Based Services and Mixed Reality (Augmented and Virtual Reality)

Boulder FirstNet Lab

DEMONSTRATIONS

Quality of Service, Priority, and Preemption (QPP) and Compact Rapid Deployable

FirstNet Authority's Path to Investment

Stakeholder Engagement

Engage with public safety, industry, and partners

FirstNet Authority Roadmap

Investment Decisions

1. Adheres to the enabling legislation

2. Guided by the investment principles

3. Aligns to the FirstNet Authority Roadmap

Network Investments

Expand the NPSBN Deployables Fleet

Enhance the FirstNet Core for 5G network capabilities

Improve in-building coverage, resiliency

Emergency Management Resource Guide

- Purpose of the Guide

- Understanding the FirstNet Deployable Program

- Using the Network Status Tool

- Using the Uplift Request Tool

- FirstNet Devices and Applications for Everyday Use

- Using a Device Cache

- Incorporating FirstNet into your Communications Plans

- Network Experience Engagement Program

Download at FirstNet.gov/EMguide

EMERGENCY
MANAGEMENT
RESOURCE GUIDE

June 2022

FirstNet Authority

The FirstNet Authority Commitment to Public Safety

UNDERSTAND

Engage, understand, and analyze public safety operational needs and opportunities

COLLABORATE

Include public safety, industry, government, and AT&T to determine the priorities we will address through the Roadmap and other efforts
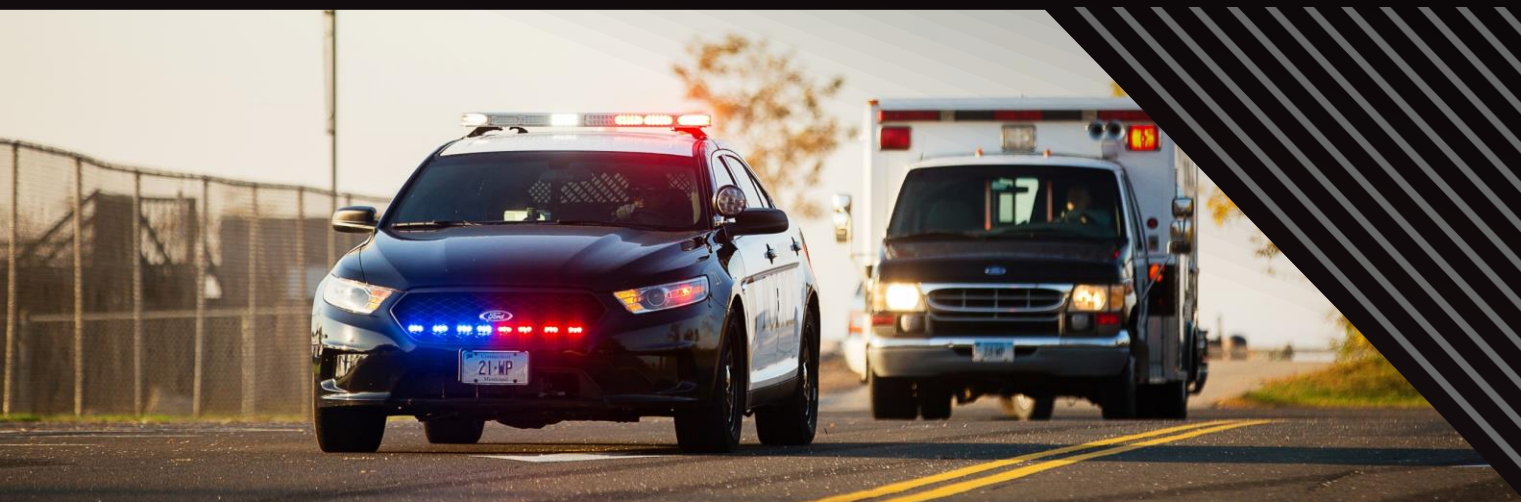
TRANSFORM

Assist public safety in its adoption and use of FirstNet so that it realizes the advantages and benefits offered by the network

FirstNet Authority

Appendix

FIRSTNET
Built with AT&T

FirstNet Band 14 Coverage

- Percent of planned FOC coverage currently in place:
  - Non-Rural Square Miles: 100%
  - Rural Square Miles: 99.8%

Band 14 New Sites - 25 sites committed

- All sites are On-Air

AT&T Commercial New Sites - 31 sites committed

- All sites are On-Air

Connect America Fund II New Sites - 162 sites committed

- All sites are On-Air

Small Cell New Sites

With regards to coverage at the State Police training facilities, AT&T will, as part of the ongoing development of our commercial network, add small cells to address coverage in Florence.

- Coverage is provided by a macro site rather than small cells.
- Site is On-Air

Harris County Site Integration

- 15 of the sites are On-Air

FirstNet Deployables - 5 committed

- 8 deployables located in Amarillo, Corpus Christi, Dallas, El Paso, Euless, Midland, San Antonio, and Spring
  - The number of deployables stored in the state may fluctuate, but will not drop below the committed number.

Helicopter Pilot

"AT&T commits to perform an aircraft pilot program utilizing State of Texas Helicopters."

- Per DPS, the pilot to test airborne HPUE and FirstNet coverage has surpassed the geospatial coverage targets provided by the State

FirstNet-CRD

Compact Rapid Deployable

A rapidly deployable COW for Emergency and Routine Cellular and Internet Communications on FirstNet

Owned and Operated by FirstNet Primary & Extended Primary users